

# **Dirigo Energy Institute, Inc.**

## Concept Study and Detailed Cost Estimates

### The U.S. Minor Outlying Islands for Spent Nuclear Fuel and High Level Radioactive Waste Interim Storage

List	Function	Organization	Cost (11, 12)
I.1	Executive Salary (1)	Dirigo Energy Institute	0.1
I.2	Staff Salaries (2)	Dirigo Energy Institute	0.2
I.3	Benefits (3)	Dirigo Energy Institute	0.1
I.4	Consultants (4)	Various	0.6
I.5	Rent Office	Dirigo Energy Institute	0.1
I.5.a	Outfit Office	Dirigo Energy Institute	0.1
I.5.b	Operating Expenses	Dirigo Energy Institute	0.1
I.5.c	Travel (5)	Dirigo Energy Institute	0.3
II.0	Environmental Impact Statement	To Be Determined	1
II.1	SNF Transport to U.S. Point of Departure	To Be Determined	0.1
II.2	Artificial Island (6)	Float Incorporated	2
III.1	Island Outfitting for Land SNF Storage	To Be Determined	0.1
III.2	Jarvis Island Characteristics	To Be Determined	0.1
III.2.a	Baker Island Characteristics	To Be Determined	0.1
III.2.b	Howland Island Characteristics	To Be Determined	0.1
III.2.c	Palmyra Atoll Characteristics	To Be Determined	0.1
III.2.d	Kingman Reef Characteristics	To Be Determined	0.1
III.2.e	Johnston Atoll Characteristics	To Be Determined	0.1
III.2.f	Wake Island Characteristics	To Be Determined	0.1
III.2.g	Midway Atoll Characteristics	To Be Determined	0.1
III.2.h	Compare and Contrast Island Characteristics	To Be Determined	0.1
III.2.i	Breakwater	Alion Science & Technology	1
III.3	SNF Storage Platform	Alion Science & Technology	1
III.4.a	Radioactive Waste Storage Platform	Alion Science & Technology	1
III.4.b	Personnel Living Facility	Alion Science & Technology	7
III.5	Ocean Thermal Energy Conversion Power Plant	Alion Science & Technology	7
III.6	Fast Ferry	Alion Science & Technology	3
III.7	Double Hulled Transfer Ship	Alion Science & Technology	10
III.8	Meetings (7)	Dirigo Energy Institute	0.1
III.9	Training Program Design (8)	Alion Science & Technology	0.1
III.10	Final Report (9)	Dirigo Energy Institute	0.1
III.11	Fee/Contingencies (10)	Dirigo Energy Institute	4
IV	Total		40
V			

Notes: 1 - One @ \$100,000/yr

2 - Four @ \$50,000/yr

3 - Benefits @ 20% of salaries

4 - 2,000 hours @ \$300 per hour

5 - Thirty trips @ \$10,000/trip

6 - Pneumatically stabilized platform to be investigated for this purpose

7 - Planning and travel to investigate alternate locations/support

8 - For security, radiation monitoring, and maintenance personnel

9 - To Include projected personnel requirements and projected 20 year annual budgets

10 - Dirigo Energy Institute fees and contingencies @ 10% of total

11 - One year to complete using detailed drawings for cost estimates

12 - Dollars shown in millions with a minimum of 0.1